

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P479107

Luminaire Tested: **IFLD-S-SA6A-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479107
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

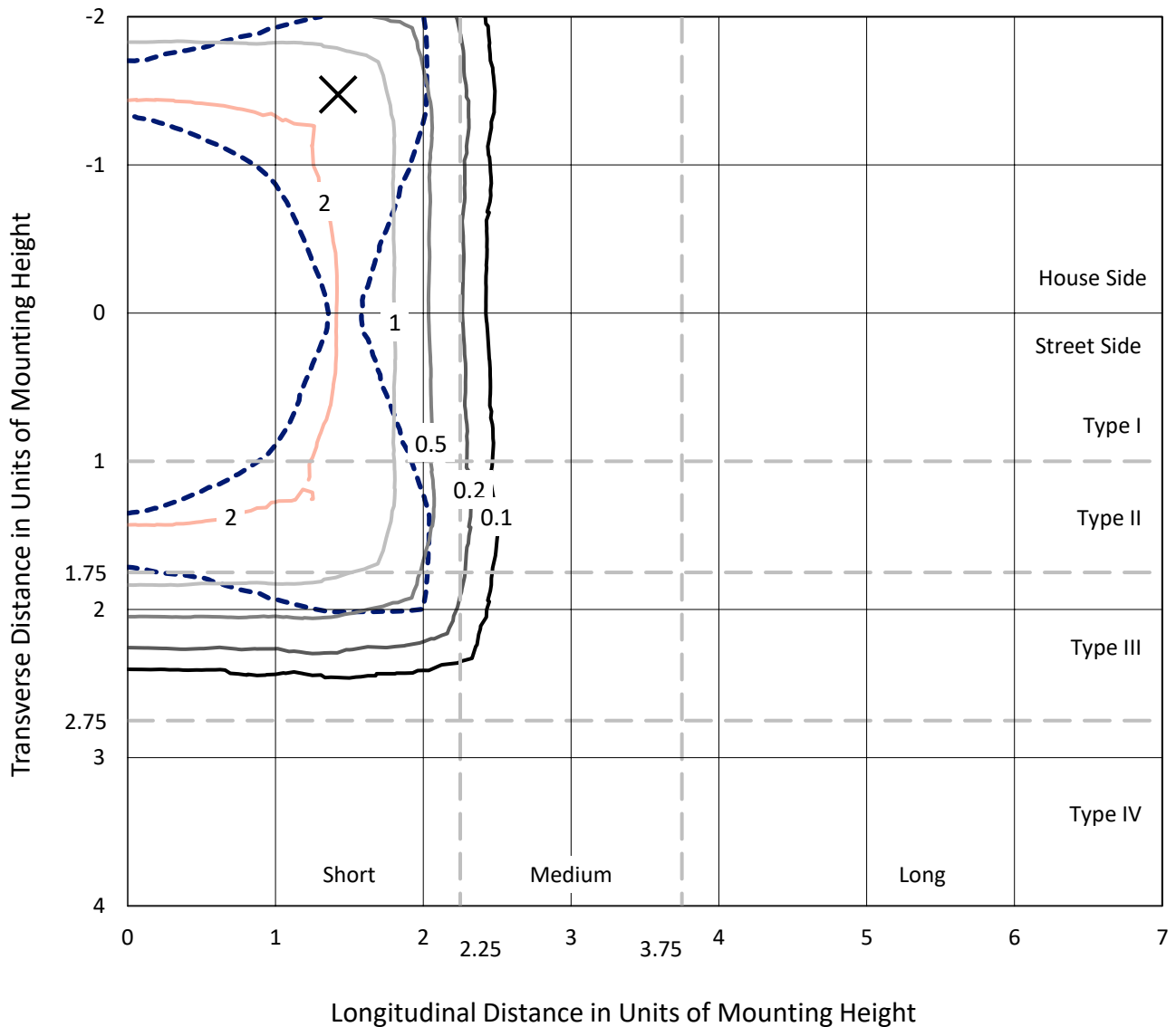
Lumens per Lamp: N/A
Luminaire Lumens: 21389.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P479107
 CATALOG NUMBER: IFLD-S-SA6A-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

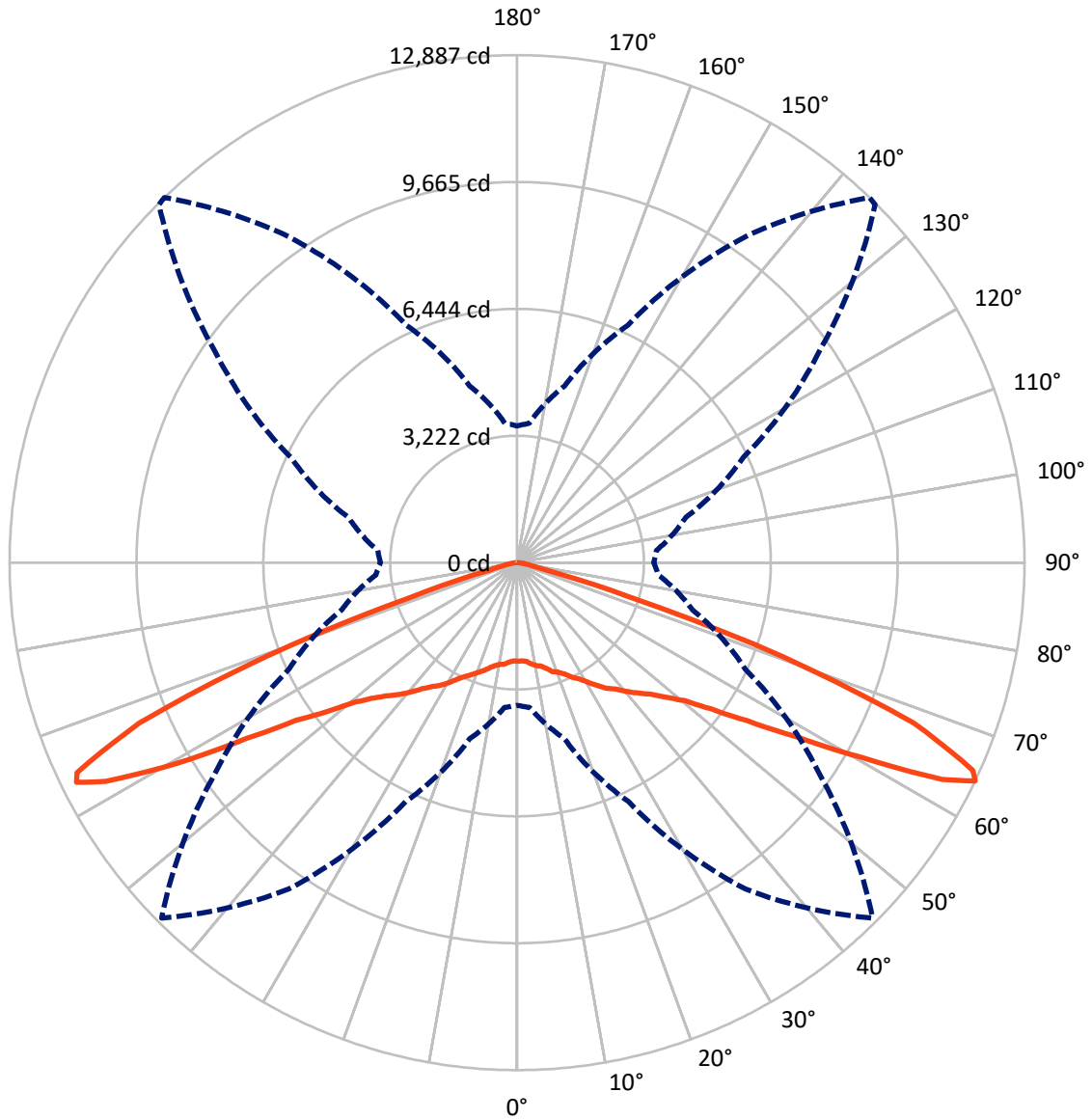
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479107
CATALOG NUMBER: IFLD-S-SA6A-830-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P479107

CATALOG NUMBER: IFLD-S-SA6A-830-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10705.1	0.0	10705.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10684.7	0.0	10684.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	21389.9	0.0	21389.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.2
10°-20°	793.1	3.7
20°-30°	1490.5	7.0
30°-40°	2458.1	11.5
40°-50°	3844.3	18.0
50°-60°	6211.5	29.0
60°-70°	5593.1	26.1
70°-80°	662.5	3.1
80°-90°	90.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21389.9	100.0
0°-180°	21389.9	100.0

Coefficient of Utilization



REPORT NUMBER: P479107

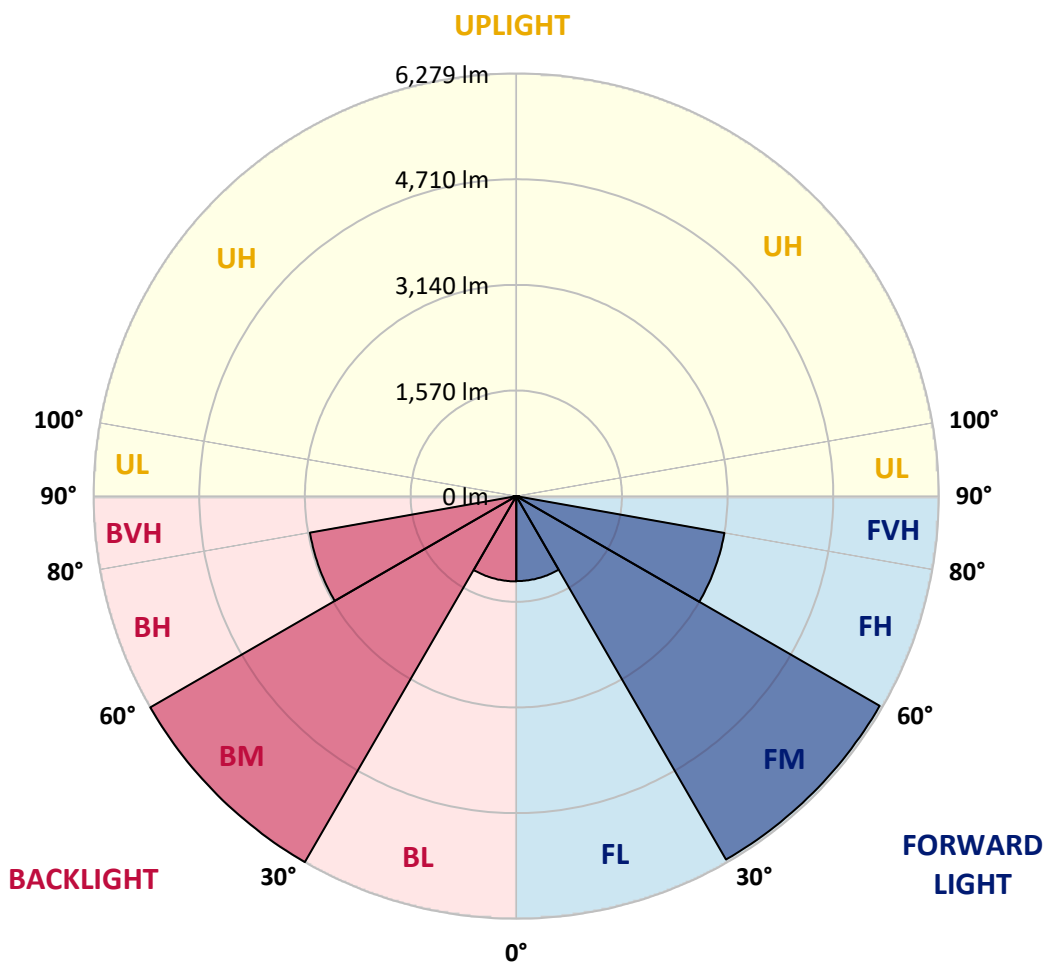
CATALOG NUMBER: IFLD-S-SA6A-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.4	5.9			
FM (30°-60°)	6234.5	29.1			
FH (60°-80°)	3141.3	14.7			G2/5000
FVH (80°-90°)	46.5	0.2			G1/100
BL (0°-30°)	1267.3	5.9	B3/2500		
BM (30°-60°)	6279.5	29.4	B4/8500		
BH (60°-80°)	3114.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	44.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479107
 CATALOG NUMBER: IFLD-S-SA6A-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2474.9	2479.8	2523.9	2506.8	2521.5	2494.5	2514.1	2555.8	2506.8	2543.6	2555.8
5°	2501.9	2509.2	2509.2	2526.4	2536.2	2531.3	2543.6	2526.4	2573.0	2553.4	2582.8
7.5°	2600.0	2587.7	2568.1	2582.8	2585.3	2597.5	2609.8	2631.9	2624.5	2607.3	2636.8
10°	2617.1	2607.3	2636.8	2639.2	2627.0	2617.1	2629.4	2629.4	2651.5	2656.4	2656.4
12.5°	2646.6	2656.4	2653.9	2673.6	2676.0	2668.7	2688.3	2725.1	2715.3	2722.6	2705.4
15°	2759.4	2747.1	2744.7	2764.3	2796.2	2749.6	2783.9	2781.5	2771.7	2786.4	2747.1
17.5°	2857.5	2818.3	2835.4	2867.3	2855.1	2864.9	2909.0	2869.8	2879.6	2862.4	2850.2
20°	2943.4	2911.5	2913.9	2926.2	2926.2	2955.6	2972.8	2958.1	2948.3	2945.8	2950.7
22.5°	3039.0	3002.2	3004.7	3056.2	3073.4	3063.6	3051.3	3075.8	3080.7	3061.1	3083.2
25°	3110.2	3149.4	3161.7	3186.2	3149.4	3176.4	3166.6	3213.2	3242.6	3203.4	3230.3
27.5°	3296.6	3279.4	3311.3	3308.8	3338.3	3311.3	3328.5	3343.2	3355.4	3357.9	3345.6
30°	3463.4	3470.7	3438.8	3524.7	3456.0	3500.2	3529.6	3536.9	3551.7	3551.7	3514.9
32.5°	3640.0	3625.2	3676.8	3657.1	3644.9	3679.2	3647.3	3747.9	3689.0	3723.4	3681.7
35°	3838.6	3838.6	3858.3	3912.2	3838.6	3816.6	3875.4	3917.1	3917.1	3855.8	3870.5
37.5°	4061.8	4042.2	4066.8	4135.4	4079.0	4005.4	4113.4	4130.5	4118.3	4101.1	4071.7
40°	4218.8	4213.9	4263.0	4353.7	4272.8	4258.1	4277.7	4324.3	4339.0	4356.2	4316.9
42.5°	4483.7	4505.8	4648.1	4626.0	4559.8	4508.3	4503.4	4677.5	4635.8	4591.7	4569.6
45°	4876.2	4856.6	4930.1	4932.6	4846.7	4733.9	4758.4	4917.9	4989.0	4890.9	4927.7
47.5°	5187.7	5197.5	5249.0	5354.5	5155.8	5038.1	5128.8	5386.4	5364.3	5327.5	5361.8
50°	5604.7	5648.8	5810.7	5773.9	5597.3	5452.6	5651.3	5894.1	5921.1	5786.2	5761.6
52.5°	6181.1	6249.7	6338.1	6367.5	6198.2	6146.7	6159.0	6460.7	6394.5	6264.5	6181.1
55°	6686.3	6718.2	6880.1	7122.9	7110.7	6863.0	7005.2	7118.0	6848.2	6580.9	6603.0
57.5°	6902.2	6916.9	7368.2	7853.9	8143.3	8199.7	8037.8	7657.7	7015.0	6499.9	6468.0
60°	6365.0	6504.8	7049.4	8145.8	9467.8	10120.3	9043.5	7719.0	6625.0	5999.6	5953.0
62.5°	5087.1	5094.5	5903.9	7566.9	10292.0	12001.6	9428.6	7142.6	5585.0	4876.2	4689.8
64°	3622.8	3691.5	4621.1	6698.6	10120.3	12766.9	9382.0	6389.6	4603.9	3598.3	3468.3
65°	2600.0	2695.6	3593.4	5815.6	9718.0	12676.1	9242.2	5742.0	3723.4	2747.1	2614.7
67.5°	956.6	995.8	1410.4	2909.0	6978.2	10802.2	7324.1	3156.8	1636.0	1165.1	1047.3
70°	444.0	446.4	522.4	961.5	3051.3	7223.5	3495.2	1184.7	615.7	488.1	453.8
72.5°	326.2	333.6	365.5	444.0	897.7	3058.6	1147.9	485.7	360.6	318.9	311.5
75°	264.9	269.8	279.6	321.3	414.5	819.2	466.0	336.0	287.0	257.5	247.7
77.5°	203.6	203.6	225.7	245.3	274.7	382.6	309.1	267.4	233.0	203.6	196.2
80°	147.2	149.6	176.6	191.3	186.4	252.6	223.2	220.8	191.3	159.4	147.2
82.5°	85.8	93.2	127.5	137.4	132.5	149.6	161.9	171.7	149.6	110.4	100.6
85°	49.1	51.5	73.6	76.0	76.0	71.1	93.2	103.0	100.6	68.7	61.3
87.5°	14.7	14.7	19.6	19.6	22.1	24.5	36.8	44.2	49.1	34.3	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479107
 CATALOG NUMBER: IFLD-S-SA6A-830-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3	2504.3
2.5°	2543.6	2506.8	2509.2	2519.0	2487.1	2499.4	2536.2	2509.2	2501.9	2487.1	2479.8
5°	2531.3	2570.5	2555.8	2560.7	2553.4	2519.0	2514.1	2536.2	2548.5	2526.4	2570.5
7.5°	2617.1	2600.0	2580.4	2587.7	2570.5	2600.0	2619.6	2575.4	2597.5	2585.3	2560.7
10°	2666.2	2634.3	2649.0	2644.1	2631.9	2661.3	2641.7	2636.8	2617.1	2590.2	2629.4
12.5°	2683.4	2720.2	2744.7	2703.0	2710.4	2695.6	2683.4	2683.4	2661.3	2653.9	2661.3
15°	2759.4	2791.3	2781.5	2813.4	2771.7	2786.4	2801.1	2764.3	2783.9	2730.0	2771.7
17.5°	2899.2	2872.2	2906.6	2864.9	2879.6	2909.0	2862.4	2862.4	2877.1	2847.7	2810.9
20°	2987.5	2975.3	2963.0	2965.4	2940.9	2967.9	2953.2	2945.8	2923.7	2933.6	2953.2
22.5°	3070.9	3053.7	3058.6	3066.0	3083.2	3070.9	3063.6	3070.9	3017.0	3066.0	2997.3
25°	3173.9	3220.5	3205.8	3237.7	3188.6	3220.5	3218.1	3171.5	3200.9	3181.3	3166.6
27.5°	3345.6	3321.1	3343.2	3303.9	3338.3	3340.7	3311.3	3389.8	3355.4	3350.5	3340.7
30°	3566.4	3549.2	3534.5	3512.4	3539.4	3517.3	3541.9	3549.2	3517.3	3492.8	3446.2
32.5°	3691.5	3738.1	3755.2	3701.3	3703.7	3716.0	3693.9	3671.9	3691.5	3698.8	3691.5
35°	3868.1	3912.2	3922.0	3880.3	3858.3	3919.6	3875.4	3949.0	3885.2	3887.7	3821.5
37.5°	4074.1	4086.4	4169.8	4123.2	4103.5	4074.1	4155.1	4145.2	4160.0	4042.2	4101.1
40°	4307.1	4351.3	4397.9	4280.1	4277.7	4304.7	4299.8	4356.2	4329.2	4312.0	4270.3
42.5°	4562.2	4655.4	4662.8	4584.3	4535.2	4530.3	4554.9	4680.0	4682.4	4569.6	4520.5
45°	4900.7	5003.7	4976.7	4824.7	4770.7	4763.3	4883.5	4937.5	4984.1	4940.0	4898.3
47.5°	5322.6	5391.3	5371.6	5231.8	5057.7	5106.7	5224.5	5393.7	5344.7	5285.8	5236.7
50°	5773.9	5854.8	5813.1	5673.3	5506.5	5506.5	5651.3	5867.1	5852.4	5737.1	5693.0
52.5°	6274.3	6392.0	6487.7	6289.0	6149.2	6171.3	6399.4	6477.9	6441.1	6360.1	6323.3
55°	6647.1	6872.8	7069.0	7078.8	7086.2	7083.7	7142.6	7221.1	6958.6	6828.6	6696.2
57.5°	6556.3	6983.1	7655.2	8111.4	8246.3	8317.5	8297.8	7934.8	7314.3	6887.5	6931.6
60°	5908.8	6605.4	7689.5	9153.9	10135.0	10036.9	9678.8	8243.9	7118.0	6396.9	6306.2
62.5°	4714.3	5553.2	7113.1	9448.2	12151.2	12121.8	10247.8	7530.1	5930.9	5018.4	4962.0
64°	3551.7	4434.7	6345.4	9372.2	12857.6	12887.0	10103.1	6652.0	4640.7	3551.7	3465.8
65°	2717.7	3536.9	5592.4	9215.2	12705.5	12722.7	9700.8	5744.5	3527.1	2521.5	2428.3
67.5°	1081.7	1506.0	3034.1	6988.0	10910.1	10863.5	6921.8	2779.0	1349.0	878.1	860.9
70°	461.1	574.0	1064.5	3311.3	7304.5	7169.6	2980.2	902.6	500.4	419.4	417.0
72.5°	316.4	350.8	456.2	1022.8	3036.6	2965.4	848.7	419.4	340.9	314.0	314.0
75°	255.1	279.6	331.1	429.2	804.5	775.1	399.8	309.1	272.3	252.6	250.2
77.5°	198.7	223.2	260.0	296.8	367.9	365.5	267.4	233.0	210.9	196.2	191.3
80°	157.0	181.5	206.0	210.9	240.4	235.5	181.5	184.0	171.7	142.3	139.8
82.5°	107.9	147.2	164.3	149.6	142.3	142.3	130.0	130.0	120.2	88.3	80.9
85°	66.2	98.1	103.0	88.3	66.2	66.2	71.1	68.7	63.8	46.6	44.2
87.5°	34.3	46.6	41.7	34.3	22.1	22.1	19.6	14.7	14.7	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)